## Forty Acres GRANITE

Superior Quality, Grey, Pink and Blue.

I am now furnishing the new United States Post-Office in Richmond with granite the beauty and quality of which was passed upon by government engineers and experts before contract was awarded

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Castings up to Twenty

Heavy Machinery Repairs

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# Don't Let Your Pipes Leak Steam All the Winter

It is not necessary. The thing is easily avoided if you will let us cover your pipes with

ASBESTOS PIPE COVERING.

Unprotected pipes will prove "fuel wasters" just as surely

SOUTHERN PIPE COVERING CO.

eral business during the year just closing and to express the hope that

It has been and will be our aim to serve our customers on the highest business plane, and if at any time they have any suggestions which will benefit our service we will be most happy to receive them. deem our greatest asset to be our satisfied customers.

We extend our best wishes for a most enjoyable Christmas and a

## SMITH-COURTNEY COMPANY

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### Shelton's Patent

"The Twentieth Century Water Wheel." The Greatest Power The Highest Speed, The Highest Efficiency.

As superior to all that has gone before as the electric light is to the tallow candle of our fathers.

Write for Booklet A.

Shelton Water-Wheel & Machine Company,

We are well fitted to execute your orders

### MACHINE WORK

either REPAIRS or the building of NEW MACHINERY. We operate a modern MACHINE SHOP, equipped with modern tools, operated by competent men. We will send men anywhere to repair or install machinery.

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Petersburg, Va.,
Machinists and Engineers,
Machinery, Engines, Boilers,
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Prompt attention given to repair work. Call Monroe 903.

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I. Our prices are consistent with the grade of work we produce, from the highest class of booklets to the simple job, to all of which we give our best efforts.

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Testing Laboratory Chemists, Chemical Engineers and Economic Geologists.

Chemical and Bacteriological Examinations of Waters, Analyses of Foods, Fertilizers, Orea, Etc. Standard Cement Testing. Examinations and

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# Electrical Supplies W. S. Tanner Paint Company,

Christmas Toys Smoothing Irons and Desk Lamps



roumson-Nelson & Co. 711 East Main.

Atlantic City Resorts

GALEN HALL ATLANTIC CITY, N. J. Always ready. Always busy. F. L. YOUNG, Gen'l Manager

(Continued From First Page.)
portion would be clear profit. Why

Study of Drainage.

Drainage is commonly thought of as the removal of water from the surface of the ground and as symonymous with drying the surface. This, however, is but the beginning of the process, and is not of itself drainage in the sense of the term as it is used in good agriculture. With respect to this matter, let us inquire into the relation which soil, water and farm plants bear to each other. It is remarkable to what extent plants reflect the water and fertility conditions of the soil in their growth and fruitfulness. The soil must possess not only plant food, but also moisture and air, which are equally essential to the roots in the preparation of needed nutriment. The soil is made up of soile earth particles presenting every conceivable form and substance, of water commonly called moisture, which surrounds each particle, and of space between the particles, which results from their irregular shape and varying size. This space portion is always occupied by either air or water, and its condition virtually controls the plant-producing ability of the soil. Primarily, drainage has to do yelds good and permanent returns. We soil. Primarily, drainage has to do with soil space by regulating the amount of water, and, incidentally, the unount of water, and, incidentally, the tir, thereby producing the conditions most favorable for roots, and of which hey promptly avail themselves. When water covers the surface these conditions are impossible, but when it has been taken off by natural or artificial hannels some lands possess the property of removing the excess of water from within the soil by natural periodation and evaporation, while others will remain wet until add tional means of draining are provided.

Controlling Dampness. egetable matter; that thirty pounds f water pass off through a single orn plant during its period of growth,

1303 East Main

7 South Thirteenth Street

BEST BUILDING LIME



Blakes perfectly-holds its own-will not

place, it is a work which requires cooperation among land owners. The
general drainage law enacted by the
last Legislature makes this possible
in a legal and practicable way.

The drainage of swami lands consists of two parts, one of which may
be regarded as public, and the other
private. If a farmer can drain his
own land through natural outlets
which exist on his own farm he is ndependent of his neighbors in this respect, but if he cannot do this he must
join with them and bear his part of
the cost of constructing such ditches
as will give each an outlet. Such outlets thus become of common value and
partake of the nature of public improvements, which are paid for not
by a general tax but by special assess-

of the uncertainties of old-time agriculture. And where should the process begin if not wit hithe soil, for is it not the farmer's capital, his storehouse of supplies, the source of his profits? Is not his inheritance which he should pass down to the succeeding generation enhanced rather than impaired in value?

Study of Drainage.

was impracticable a few years ago is now feasible and profitable. The steam excavator with the aid of dynamite lifts the stumps easily aside and plows a canal through the wooded swamp at a cost which is far less, not withstanding the high price of present labor, than that at which such work done years ago in the prairie out it withstanding the high price of present labor, than that at which such work done years ago in the prairie out it withstanding the high price of present the feel and pulls the stumps from the field and provided a lighter diet throughout the year, like a factory or an electric road. The proceedings prescribed by the law must be followed absolutely, tand the work should be carefully a planned and well executed, and the interests of all land owners should be guarded. For these reasons, two and sometimes three years must elapse, where districts of medium size are worked out, before any returns can be obtained from the land. If the land to be reclaimed is fertile, and the plans under which the drainage is accomplished are sound, no fears heed be entertained that the operation will not pay out with abundant interest on the amount invested.

Gradual Growth.

Drainage for agriculture is most em-

A have emphasized the importance of farm and field draftange because it is the first step—the "A, B, C"—of reclamation work. The agriculture of a large part of the Middle West—the great "corn belt," as it is called—would be languishing to-day had not those lands been drained and their natural fertility developed. Nothing substantial can be accomplished until a beginning is made, and the place to begin is on the field and on the farm. Let one man become convinced by the results of his own work that drainage is valuable, and he at once is ready to attack works of greater magnitude, often to the extent of working for a public policy, for the benefit of the Commonwealth, as well as for private interest.

I shall not attempt to exploit the good that would accrue to the State if the swales, the wastes and the swamps were drained. The magnitude of this work has deterred many from giving it any consideration. At this time it is more appropriate that I discuss ways and means of reclaiming lands for farming purposes. In the first

Nevado

White Lead

MANUFACTURED BY

W.S. Tanner Paint Company,

W.S. Tanner Paint Company,

W.S. Tanner private interest to the state is proving more effective in that State is proving more effective in the state is proving more effective in that State is proving more effective in the state is proving more effective in the sta

Practically Speaking.

Here is a practical proposition. The swamp lands, overflowed bottoms and low tidal lands are in private ownership. Their reclamation and bottom. New Era in Education Started in the Grand low (Idal lands are in private ownership. Their reclamation and betterment will be a public improvement. Should find public assist financially in the reclamation of such lands? Possibly, but the law does not contemplate such assistance unless it can be rendered on the ground of health berging the conferred upon the community by the removal of masnitary conditions. Under present prices of improved fands and of farm products, and the proximity of Virginia lands to the sea-board markets, there are no more promising fields for business enter-prise than the reclamation of the State. The returns are not so quick as they are from some so-called legitimate operations in the business world, but the owner of the second lengthmate operations in the business world, but the owner of the second lengthmate operations in the business world, but the cambidation of machinery (world will be opened to the ground of health of the world of the state of the work of the world of the state of the world of the state of the work of the world of the state of the world of the state of the work of the world of the world of the state of the world of the world of the state of the world of the state of the world of the world of the state of the world of the world

portion would be clear profit. Why not drain it and make the entire seld uniformly productive? These are apparently sufficient to fills neighbor in this region of the leafthful living, as they can be apparently sufficient to fills neighbor in this region of the leafthful living, as they can be parently sufficient to fills neighbor in this region of the leafthful living, as they can be parently sufficient to fills neighbor in this region of the leafthful living, as they can be parently sufficient to fills neighbor in this region of the leafthful living, as they can be parently sufficient to fill sufficient to fill sufficient to fills neighbor in this region of the leafthful living, as they can be read estate agents; tint is, the sure enough agents. True they have remove how in looking for a new home, by dealing, they will attend the set of the who is looking, they will attend the set of the who is looking, they will attend the set of the who is looking, they will attend the set of the surface in the whole is sufficient to fill sufficient to fi

ready to come to your aid whenever the land is ready, and the markets of the world are calling for all the land will produce. Now is the time to begin the betterment of agriculture in Vir-

yields good and permanent returns. We are rapidly passing the day of the one-mule farm with its primitive outfit. Profitable furming to-day is a well established business managed in a practical way rather than clipping coupons from interest-bearing bonds.

Modern Equipment.

The facilities for rectaining swamp lands have been so perfected during the last few years that work which was impracticable a few years ago is now feasible and profitable. The steam excavator with the aid of dynamite lifts the stumps easily aside and mitch if the stumps easily aside and mitch if the stumps easily aside and many received more, many less, and for this sum she must not only know how to cook, but must do it, week days and Sundays, year's end to year's end. And be it remembered that the meals must be substantial and withal hot, and they must be just as hot in summer as in winter, for the cold bread, fruit and salad scheme, so often suggested for the hot months by writers in the ladies.

amount invested.

Gradual Growth.

Drainage for agriculture is most emphatically a development, It does not advance by lehps and bounds, but grows gradually until it becomes a well recognized and essential part of agricultural operations. Tenants as well as owners should have a voice of the thouse cleaning and a portion of the farm hands and house servants. The farm hands and house servants while all through the year there are some of them to prepare meals for, while at the great house guests are generally in evidence. Three hot meals are served daily, Sunday supper excepted. The churning and a portion of the house cleaning is done by her

of the house cleaning is done by her. Each summer she is given a month vacations (well earned.) During the other eleven months in the year she can be found at her post of duty in her domain, working from early dawn until after the supper is sent in to the great house, rarely before 7:30 at night.

One of a fast diminishing number of faithful servitors, at one time a familiar sight on almost every Southern plantation, she moves about her work slowly, but steadily. Her like is hard to find these days, and to supply the places of these old queens of the kitchen is a very knottly problem that faces the good wife on the Southern farms these days.

As a remedy for the scarity of farm cooks, it seems that the example of our Northern and Western cousins might be adopted as far as possible, that is to install all the modern conveniences around the house, using them whenever practicable, as the means of saving labor, and at the same time adding greatly to the comfort and happiness of those families in the country who are not blessed with good cooks.

The list of labor-saving devices is too numerous and too well known for the writer to attempt to itemize them.

Modern conveniences of all sorts are familiar to the majority of people these days. The thing to do is to get them installed if possible, and then lighten the daily grind of labor that the women undergo on farms where the servant problem is a vexed one.

HENRICO TO THE FRONT.

New Era in Education Started in the Grand Old County.

Total.....\$920,583

CORN-GROWERS' CONTEST.

Boys Who Made Corn to Show Up at Roan oke in January. oke in January.

The second annual corn-judging contest, conducted by the Virginia Corn-Growers' Association, will be held in Roanoke, January 12, 1911. This contest has been made possible through the liberality of seven colleges and universities of the State in offering scholarships as prizes. These arc: Sheanandesh Collegiate Institute and School of Music, Dayton tuttion scholarship, value, 346.

iering scholarships as prizes. These are: Sheanandeah Collegiate Institute and School of Music, Daytor tuition scholarship, value, \$40.
Washington and Lee University, Lexington, tuition scholarship, value, \$50.
University of Virginia, Charlottesville, tuition in either the academic or engineering departments for two years, value \$20 or \$50. depending on course taken.
Virginia Polytechnio Institute, Blacksburg, Stiden Scholarship, value, \$45.
Hampden-Sidney College, Hampden-Sidney, Utginia Christian College, Lynchburg, Utginia Christian College, Lynchburg

ints and the scoring into the state under twenty-one of age, who have never been enrolled of the agricultural courses at V. P. eligible to compete, excent the six winners at the contest held in Rich-Pebruary 3, 180. The boy winning first will be given first choice of the schollest the second, second choice, and so ntil all are taken.

Saturday

Saturday

M., 1909 a.

For Petersburg: 100 P. M., 1150 P. M., 1150 P. M., 1160 P. M., 1160



Rate, \$1.50 per day and upward,

Opposite Main Street Station C. & Pick A. M., \*2:00 P. M., \*4:16 )

O., S. A. L. Rys.,

Plebrane de M., \*2:00 P. M., \*2:00

Richmond, Va. Rates, \$1.00 and up. Rooms single and en suite. Every modern convenience. New taxicab service to and from all trains J. LEE DAVIS.

MURPHY'S HOTEL EUROPEAN PLAN, VIRGINIA RICHMOND.

JOHN MURPHY, Manager.

A strictly modern house, fronting on three streets, in the heart uf beautiful Richmend.

Rooms fronting every way.

steamboats.

### Baltimore Steam Packet Co

Equipped with wireless telegraphy.
TO BALTIMORE AND THE NORTH VIA
NORFOLK AND OLD POINT.
Leave Richmond Daily including Sunday, via
N. & W. Ry. 2:00 P. M., Norfolk 5:30 P. M.
C. & O. Ry. 4:00 P. M., Old Point 7:30 P. M.
O. D. S. S. Co. 7:00 P. M. (one day in Norfolk).

Va. Nav. Co. 5:20 A. M. (Monday, Wednesday and Friday).

Tickets at all offices. For staterooms apply to H. M. BOYKIN, Agent, 820 East Main Street.

Merchants and Miners Transportation Co.

Norfelli to Boston, Mass. end
Providence, R. I.
Steamers leave Norfelk for Boston, Sun.,
Tues. and Fri.; for Providence Mon.,
Wed. and Sat. at 6 P. M. Passelgers and
freight taken for all New England points.
Tickets on sale at office C. & O. Ry., N. &
W. Ry., S. H. Bowman, 768 East Main. and
Richmond Transfer Co., 306 East Main.

Magnificent S. B. "Arable" leaves Feb. (; rates 1400 up, including shore excursion; 71 enchanting days. Stop-over privileges. Round World Tour Jan. 25; Trans-Siberian Mar. 14; Riveria in Jan. and Feb. and 30 European Tours. Specify program desired. S. H. HOWMAN, 308 Ex. Main St. FRANK C. CLARK. Times Building, New York.

## TAX NOTICE

Office Collector of City Taxes,
City Hall,
Richmond, Va., Dec. 1, 1910.

## Notice to Tax payers

The Confederate Musuem TWELFTH AND CLAY STREETS OPEN 9 A. M. TO 5 P. M. ADMISSION 25c. FREE ON SATURDAYS.

steamvoats.

A NICE

amaica, Cuba, Hayti, Panama and Central America. \$92 to \$220—10 to 32 Days. ASK MR. BOWMAN'

708 E. Main Street. Steamship and Tourist Agent.

Batiroaus.

Atlantic Coast Line

TRAINS LEAVE RICHMOND.

TRAINS LEAVE RICHMOND.

N. B.—Following schedule figures published as information and not guaranteed:

4:19 A. M.—Daily—Local for Charlotte, Duresam and Raleigh. 10:48 A. M.—Daily—Limited—For all points South. Drawing Room Buffet Siceping Car to Memphis via Asheville and Chattanoga. 3:69 P. M.—Ex. Sun—Local for Durham and intermediate stations.

4:69 P. M.—Ex. Sun—Keysville Local. 11:45 P. M.—Daily—Limited—For all points Bouth-Pullman ready 5:30 P. M.

YORK RIVER LINE.

4:39 P. M.—Ex. Sun —To West Pt., connecting for Baltimore Mon., Wed. and Frl. 6:100 A. M.—Ex. Sun and 2:15 P. M.—Mon., Wed. and Frl.—Local to West Point,

TRAINS ARRIVE RICHMOND.

From the South: 6:56 A. M., 8:65 P. M.,

From the South: 6:56 A. M., 8:65 P. M.,

Richmond, va.

most magnificent hotel in the
European plan. Rooms single
n suite, with and without batha
clous sample rooms.
e, \$1.50 per day and upward,

Norfolk and Western Railway
ONLY ALL RAIL LINE TO NORFOLK.
Schedule in Effect October 1, 1916.
Leave Hyrd Street Station, Richmond, FOR
MORFOLK: '9:00 A. M., '4:10 P.
M.

Richmond, Fredericksb'g & Potomac R. R.

TO AND FROM WASHINGTON AND BEYOND. Leave Richmond | Arrive Richmond \*5.42 A.M. Main St. Stn. †11.56 A.M. Byrd St. Stn. \*8.40 A.M. Byrd St. Stn. \*11.50 A.M. Byrd St. Stn. \*12.01 noon Byrd St. Stn. \*12.02 B.M. Byrd St. Stn. \*12.02 b.M. Byrd St. Stn. \*12.02 b.M. Byrd St. Stn. \*10.02 P.M. Byrd St. Stn. \*8.20 P.M. Byrd St. Stn. \*8.20 P.M. Byrd St. Stn. \*8.20 P.M. Byrd St. Stn. \*12.50 night Byrd St. Stn. \*8.20 P.M. Byrd St. Stn. \*12.50 night Byrd St. Stn. \*10.00 P.M. Byrd St. S

ACCOMMODATION TRAINS—WEEKDAYS.
Leave Byrd St. Sta. 1.30 P. M. for Fredericksburg.
Leave Elba Sta. 7.30 A. M., 5.30 F. M. for Ashland.
Arrive Byrd St. Sta. 8.25 A.M. from Fredericksby,
Arrive Elba Sta. 8.30 A.M., 5.30 P.M. from Ashland.

\*Daily. †Weekdays. †Sundays only. All trains to or from Byrd Street Station (except trains leaving 4.50 s. m. and arriving 12.50 night) stop at Elba. Time of arrivals and departures not guaranteed. Read the signs. Gepartures not guaranteed. Read the signs.

RICHMOND AND CHESAFEAKE BAY

RAILWAY COMPANY.

Schedule of electric trains to and from
Ashland, stoppling at intermediate stations
upon signal: Lv. Richmond (Broad and
Laurel Sts.): 6:606, 7:10, 8:106, 9:106, 9:106, 9:106, 10:106, 10:10, 11:106, 9:106,

Chesapeake & Ohio Railway

190 A. Daily-Fast trains to Old Point,
140 A. Daily-Fast trains to Old Point,
140 A.-Daily-Local to Newport News,
150 P.-Daily Local to Newport News,
150 P.-Daily Local to Old Point,
1100 P. Pallimane
1100 P. Pallimane
1100 A.-Daily-Louisville and Cheinnati
1100 P. Pallimane
1100 A.-Daily-Charlottesville Week days
-Hinton
118 P.-Week days. Local to Gordonsville,
10100 A.-Daily L'burg, Lex., C. Forge,
118 P.-Week days. To Lynchburg.
118 P.-Week days. To Lynchburg.
118 P.-Week days. To Lynchburg.
119 P.-Week days. To Lynchburg.
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